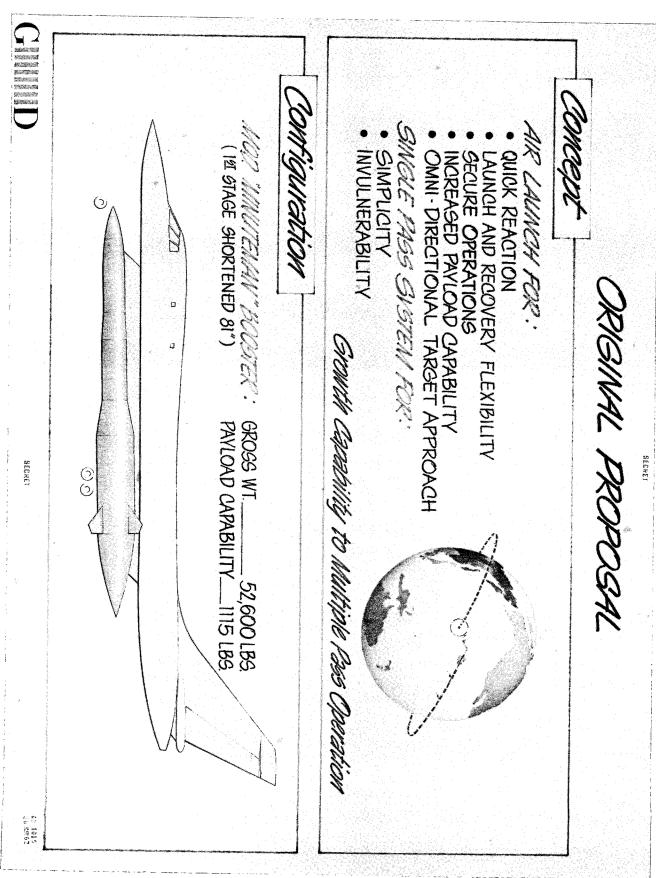
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PROJECT "TOWN HALL"

AIR LAUNCHED PHOTO RECONNAISSANCE SATELLITE

NRO REVIEW COMPLETED USAF review(s) completed.

A7 1611 %6.00062



SUBSEQUENT STUDIES

MISSILE DESIGN

- INCREASED PAYLOAD BY INCREASED BOOSTER SIZE (MINUTEMAN AND NEW BOOSTERS)
- EVALUATION OF ENVIRONMENTAL EFFECTS ON MOTORS

AIRPLANE STUDIES

- DETERMINE MAX. BOOSTER SIZE COMPATIBLE WITH B-58
- WIND TUNNEL TEST PROCRAM & A/P PERFORMANCE STUDY

PERFORMANCE

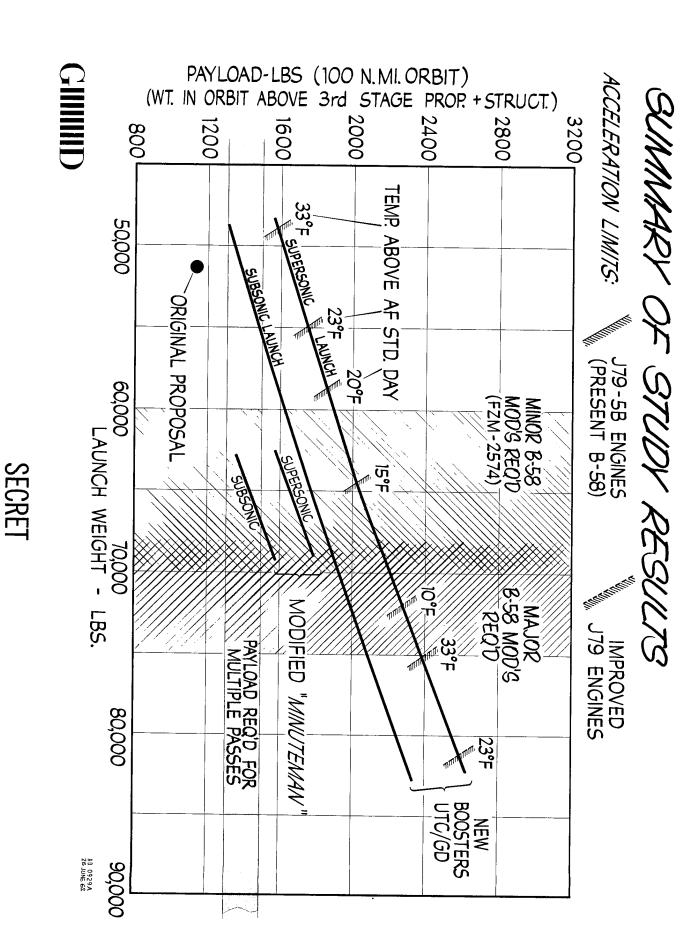
- OPTIMUM COMBINATION OF MISSILE/B-58 PERFORMANCE
- COMPARISON OF GROUND AND AIR LAUNCHING

PAYLOAD

- ADVANCED GUIDANCE AND CONTROL CONCEPTS
- MULTIPLE PASS REQUIREMENTS AND CAPABILITIES

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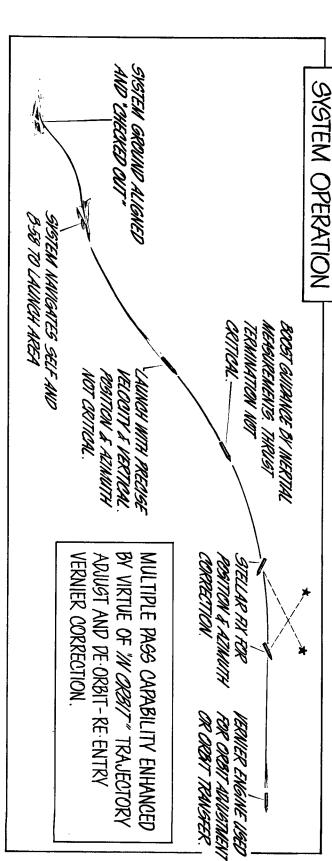


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MTEGRATED CHIDANCE & CONTROL SYSTEM Based on system under developm't by United Mineaft |

SYSTEM COMPONENTS

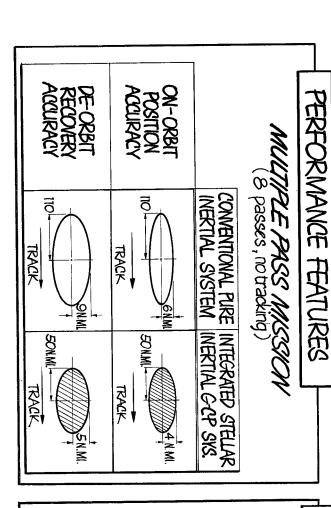
- HIGH QUALITY INERTIAL PLATFORM
- MEGACYCLE DIGITAL COMPUTER WIDE ANGLE STAR MONITOR
 - HYPERGOLIC VERNIER PROPULSION
- COLD GAS ATTITUDE CONT'L



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INTEGRATED KS. COMENTIONAL SKITEM COMPARSON



OPERATIONAL FEATURES

FOR INTEGRATED SYSTEM

- Launch W/o accurate Pos. \$ Az.
- Orbit changes possible during
- Thrust-termination not critical
- Vernier recovery guidance possible

AVAILABUTY

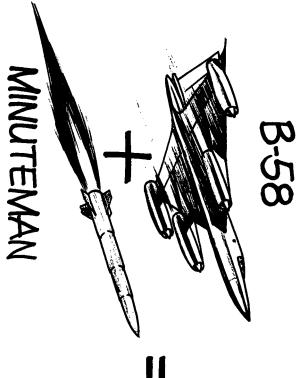
- conventional system 9 months
- Integrated system 18 months

- RECOMMENDED APPROACH

 Interim conventional system
- Grow into fully integrated system

SYSTEM POTENTIAL

MOBILE (INEXPENSIVE LAUNCH CAPABILITY



COVERT PHOTO
RECONNAISSANCE
CAPABILITY

MTERCEPT

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THER APPLICATIONS

- EQUATORIAL SATELLITES
- ADVANCED ICBM POTENTIAL MOBILE SPACE PROBES

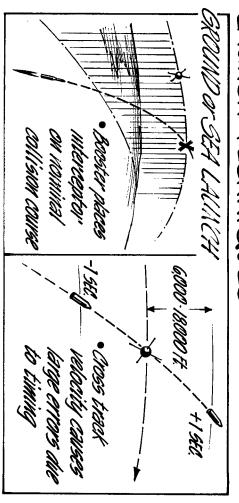
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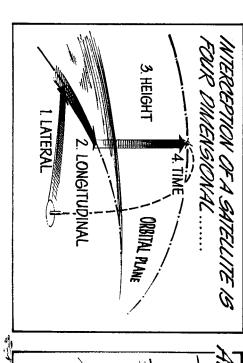
SATELLITE INTERCEPTOR SYSTEM ADO-40

REQUIREMENTS:

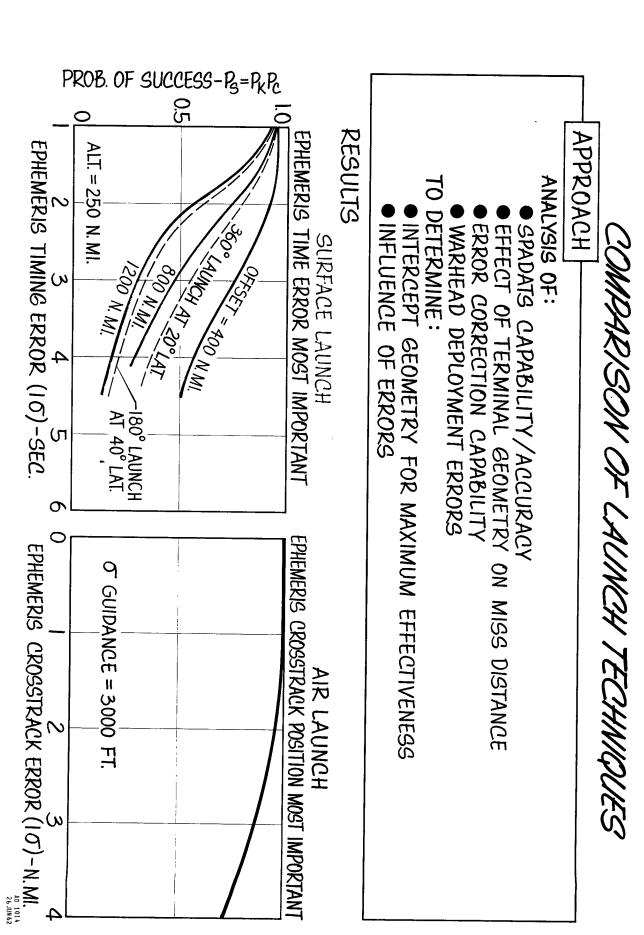
- EARLY CAPABILITY
- DIRECT INTERCEPT COLD WAR SYSTEM
- COVERT CAPABILITY
- EXISTING BOOSTERS NUCLEAR or NON-NUCLEAR KILL
- COMPATIBLE WITH SPADATS 800-1000 N.MI. CAPABILITY

DAUNCH TECHNIQUEO



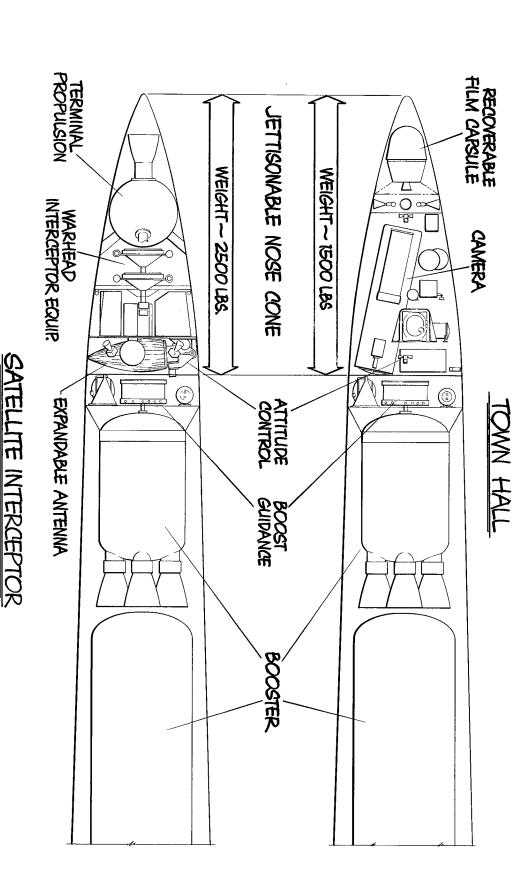


BOOSTER IN ORBITAL 4. TIME IN SECONDS.



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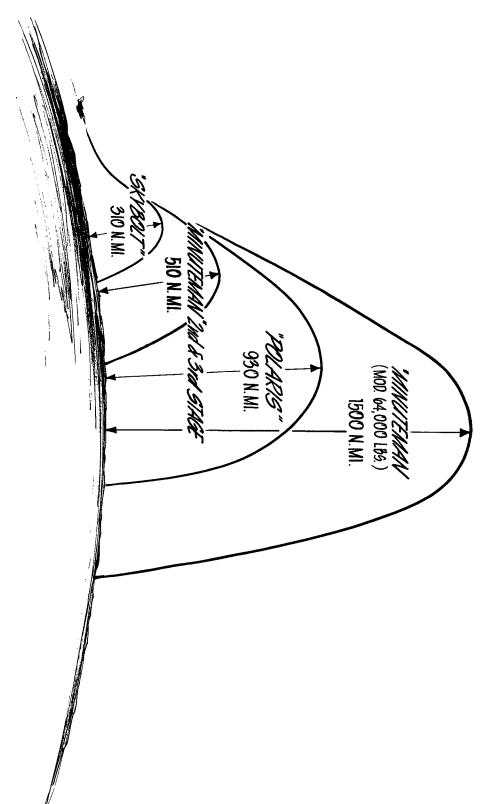
COMPARISON OF TOWN HALL & SATELLITE INTERCEPTOR



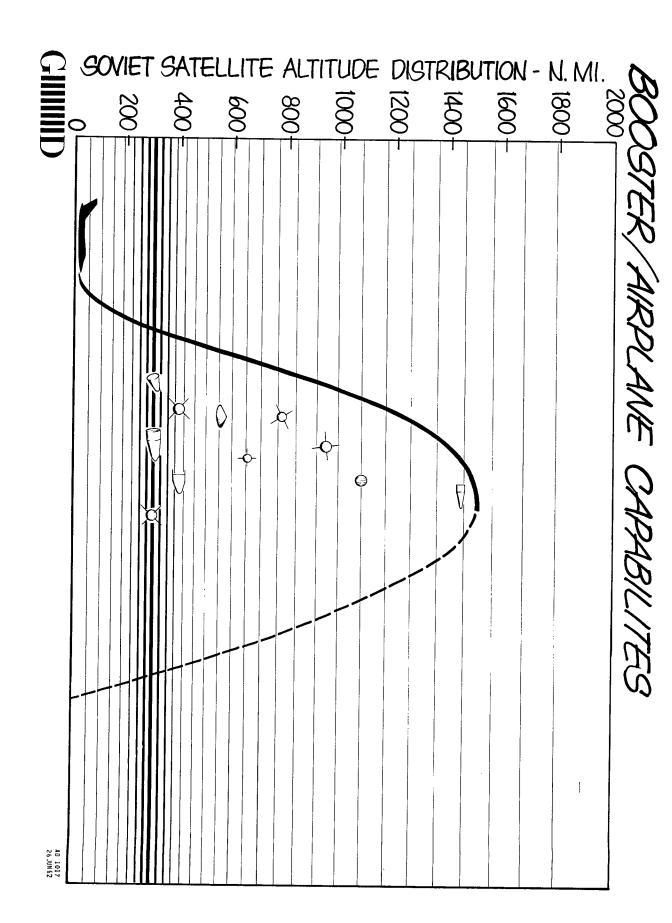
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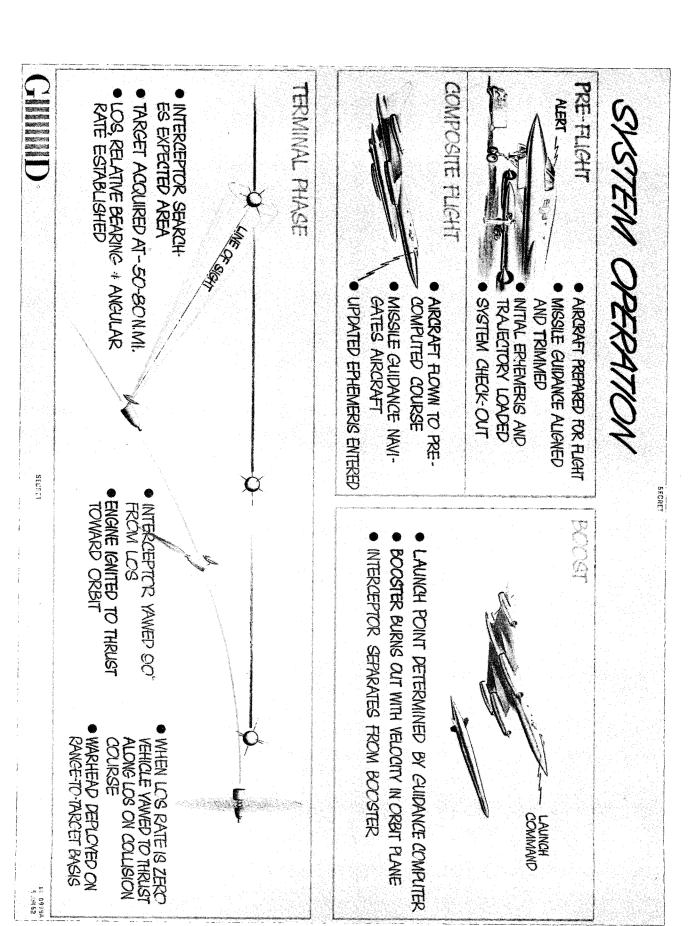
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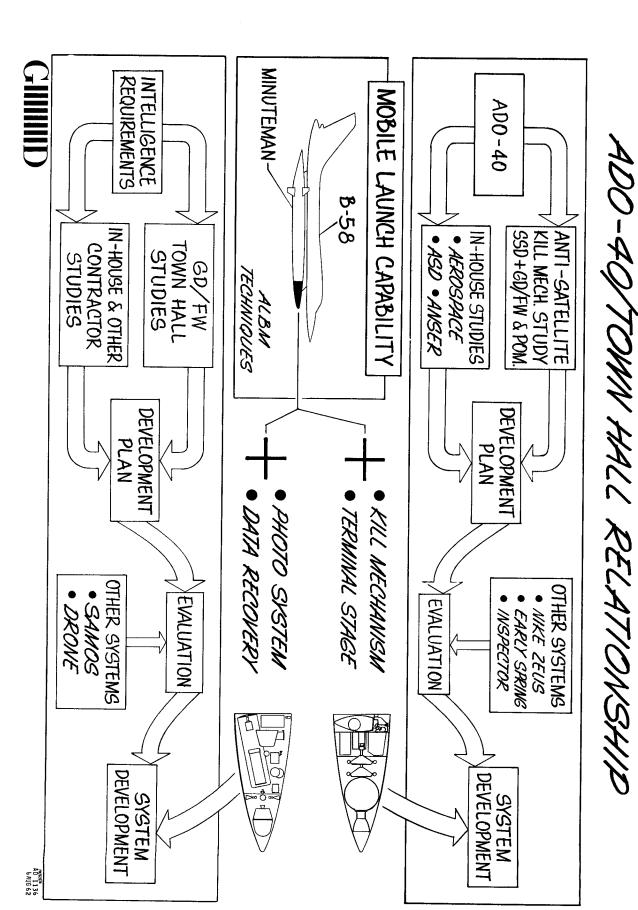


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CONCLUSIONS AND RECOMMENDATIONS

- ADO-40 system and various covert recon systems are being studied and evaluated by separate contractor and USAF groups.
- The mobile launch concept is competitive for each mission and should be evaluated simultaneously by USAF personnel cognizant of both missions This dual separate approach may well result in choice of two systems, optimum for each mission, but entirely different in hardware items
- choice of mobile launch concept could lead to greatly reduced development standard boost vehicle for dual purpose use costs, operational costs and reliability improvements through adoption of a